CLS-C6MRF

iLux® Integrated Lighting System w/Motion Detector & infiNET™

> Wall mount integrated lighting and shade control

> 6 channels of dimming or switching

> 6 groups of shade and drape control

> Linkable for up to 54 lighting channels and 54 shade groups

> Up to 16 user-settable scenes | Large ON and OFF buttons

> 7 configurable "rocker" buttons with customizable label strip

> Flip-up front cover reveals setup controls and programming port

> 6 bargraphs show lighting levels and shade positions

> Easy setup from front panel or iLux Designer software

> Built-in motion detector | Optional IR remote

> Supports multipoint control using up to 16 keypads

> Master air-gap relay

> Integrates with 2-Series control systems via infiNET RF wireless technology

> Energy saving ASHRAE 90.1/LEED compliant

> Available in almond, black, or white

The iLux CLS-C6MRF is a complete, integrated lighting system designed for wall mount installation in boardrooms, auditoriums, home theaters, or anywhere versatile and cost-effective control of lighting and shades is required. Crestron's reputation for innovation and reliability, combined with high-quality integrated dimming, native shade control, and extensive customization and integration ability make iLux the ideal choice for all types of room lighting and shade control applications.

6 Channel Dimming

The CLS-C6MRF features six channels of dimming for LED[1], incandescent, magnetic low-voltage, neon/cold cathode, and 2-wire dimmable fluorescent loads. On/off switching of many non-dimmable lighting loads is also possible. Each channel will handle up to 800 watts individually, with a total rating of 1920 watts for the complete unit. Larger loads and additional load types can also be supported using Crestron CLS-EXP Series expansion modules.

6 Group Shade Control

Using Crestron's networked Shade and Drape Controllers, the CLS-C6MRF enables versatile control of a roomful of motorized window treatments, screens and lifts in up to 6 shade groups.

Versatile Front Panel Controls

The deceptively clean front panel actually affords an extensive amount of control and customization to suit each unique room application. Large ON and OFF buttons provide instant access to the "On" and "All Off" scenes, while the six main buttons can be set up to recall additional scene presets, adjust shades, or perform a host of other functions. The buttons' "rocker" action enables intuitive, tactile control for adjusting lighting levels and shade positions. An additional "Up/Down" button is configurable for a variety of functions, including use as a master lighting or shade control, or as a "shift" button to expand the capabilities of the six main buttons.

With each new scene selection, window shades reposition and lights fade elegantly to their new settings. The selected scene is indicated by a white

LED beside each button, and the customizable label strip allows each button to be clearly labeled using Crestron Engraver software or standard 3/8" tape labels. Dimming levels and shade positions are displayed graphically on 6 green LED bargraphs accessible behind the flip-up front cover. Additional controls and a numeric display hidden beneath the cover enable setup without requiring a PC. Enhanced customization is provided via the PC programming port using iLux Designer software.

Built-in Motion Detector

The CLS-C6MRF features a built-in infrared motion detector, enabling automated control based on room occupancy. Lights can be programmed to turn on and shades open automatically when someone enters the room, or turn off and close when the room is left empty.

Multipoint Keypad Control

Up to 16 Crestron keypads may be connected to a single CLS-C6MRF, providing versatile multipoint control for rooms with multiple entrances or work areas.

Multi-Unit Expansion

One CLS-C6MRF master will support up to 8 additional CLS-C6 or CLS-C6M units, enabling systems of up to 54 lighting zones and 54 shade groups. Commands for typical functions like scene recall, scene off, master dimming, and occupancy status are shared between the CLS-C6MRF and CLS-C6(M) units. Each individual unit can still support a complete assortment of local devices including keypads and shade controllers.

Control System Integration via infiNET™

The CLS-C6MRF employs Crestron's infiNET technology to enable a wireless link to a 2-Series control system. A single C2N-MNETGW gateway connected to the control system enables 2-way wireless communications between the iLux system and the central control system, allowing iLux's functions to be controlled from touchpanels, RF wireless remotes, and even computers. The control system interface also enables extensive flexibility for integration with other systems such as security,

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HVAC and energy management, plus remote monitoring via SNMP and Crestron RoomView® applications.

Several infiNET-based iLux systems can coexist on one infiNET wireless network along with other infiNET dimmers, switches, and thermostats. For a solution using a wired Cresnet connection instead of infiNET, use the CLS-C6M.

SPECIFICATIONS

Load Ratings

Dimmer Channels: 6
Maximum Per Channel: 800 Watts/VA (6.6 Amps @ 120 Volts AC), expandable via Expansion Modules (sold separately)
Minimum Per Channel: 15 Watts/VA (0.125 Amps @ 120 Volts AC)
Module Total: 1920 Watts/VA (16 Amps @ 120 Volts AC)
Load Types: LED[1], Incandescent, Magnetic Low-voltage, Neon/Cold Cathode, 2-Wire Dimmable Fluorescent, & Non-Dim Lighting (also: Electronic Low-voltage, 3 and 4-Wire Fluorescent, High-Inrush Switching, & 277V via CLS-EXP Series expansion modules)

Power Requirements

100 to 127 Volts AC, 50/60Hz Line Power

Connections

LOCAL DEVICES: (1) 4-pin 5mm detachable terminal block;
Cresnet Master port for local devices including:
C2N-DB and CNX-B Series keypads, 16 maximum;
C2N-SSC-2, C2N-SDC, and C2N-SDC-DC shade controllers; 16 maximum;
Additional CLS-C6M or CLS-C6 units, 8 maximum;
Additional CNPWS-75 or other Cresnet power supply required beyond 4 devices; C2N-SDC-DC always requires an additional power supply
HOT: (1) Captive screw terminal[2], line power input
LOAD1 – LOAD6: (6) Captive screw terminals[2], dimmer channel outputs 1 – 6
NEUTRAL: (1) Captive screw terminal[2]
GROUND: (1) Captive screw terminal[2]
PC (front): (1) 3.5mm TRS mini-phone jack, RS-232 Programming port

Controls

Buttons 1 – 6: (6) 3-position rocker pushbuttons; configurable to recall (or toggle recall/off) individual scenes, control shades, or for master lighting or shade control; "scene mastering" option enables manual dimming utilizing rocker button action; also used to adjust lighting levels when in "Lighting" mode and shade positions when in "Shades" mode; additional functionality configurable via software
Up/Down Button: (1) 3-position rocker pushbutton; configurable for master lighting or shade control, or as a "shift" for Buttons 1-6; additional functionality configurable via software
ON: (1) pushbutton, recalls "On" scene
OFF: (1) pushbutton, turns all lights off
LIGHTS, SHADES: (2) Pushbuttons, select "Lights" or "Shades" modes

SAVE, CANCEL, ^, v: (4) Pushbuttons, navigate and execute setup functions
Reset: Recessed miniature pushbutton for hardware reset
Dimming Ramp Rate: 5 seconds (default), software adjustable 1 to 10 seconds
Scene Fade Time: 2 seconds (default), software adjustable 0 seconds to 99 minutes

LED Indicators

Scenes: (6-white) Correspond with each "Scene" Button
High/Low: (2-white) Indicate "Shift" status
ON: (1-white) Indicates "On" Scene is selected
LIGHTS, SHADES: (2-green) Indicates "Lights" or "Shades" mode is active
SAVE, CANCEL: (2-green) Correspond with "Save" and "Cancel" Buttons
MIN, SEC: (2-green) Indicates display of "Minutes" or "Seconds"
1 – 6: (6-green) 7-Segment bargraphs, indicate lighting levels and shade positions
Numeric Display: (2-green) 8-Segment digits, indicates modes and setup values

IR Receiver

Reception Frequency: 36 kHz
Requires CLS-IRHT8 IR remote

Motion Detector

Type: Infrared
Range: 20 to 30 feet at 4 foot elevation

RF Wireless

RF Transceiver: 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.6 MHz), IEEE 802.15.4 compliant
Range (typical): 150 feet indoor, 250 feet outdoor;
Subject to site-specific conditions; range is increased by adding additional devices or C2N-MNETRPT repeater
Gateway: Requires a C2N-MNETGW RF gateway

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

Mounts in a 4-gang electrical box, 3-1/2" deep minimum

Dimensions

Height: 4.48 in (11.38 cm)
Width: 8.89 in (22.58 cm)
Depth: 2.60 in (6.61 cm)

Weight

1.43 lb (0.65 kg)

MODELS & ACCESSORIES

Available Models

CLS-C6MRFA: iLux® Integrated Lighting System w/Motion Detector & infiNET, Almond

CLS-C6MRFB: iLux® Integrated Lighting System w/Motion Detector & infiNET, Black

CLS-C6MRFW: iLux® Integrated Lighting System w/Motion Detector & infiNET, White

Available Accessories

C2N-CBD-E: Cameo® Express Keypad, Standard Mount

C2N-CBD-P: Cameo® Keypad, Standard Mount

C2N-CBF-P: Cameo® Keypad, Flush Mount

CLS-EXP-DIM: iLux® Dimmer Expansion Module

CLS-EXP-DIMFDB: iLux® 3-Wire Fluorescent Dimmer Expansion Module

CLS-EXP-DIMFLV: iLux® 0-10V Fluorescent Dimmer Expansion Module

CLS-EXP-DIMU: iLux® Universal Dimmer Expansion Module

C2N-DB6: Decorator Keypad, 6-Buttons,

C2N-DB8: Decorator Keypad, 8-Buttons

C2N-DB12: Decorator Keypad, 12-Buttons

C2N-MNETGW: infiNET™ Gateway

C2N-MNETRPT: infiNET™ Repeater

C2N-SDC: Shade and Drape Controller, 120V AC

C2N-SDC-DC: Shade and Drape Controller, 24V DC

C2N-SSC-2: Somfy® Shade Controller

CLS-IRHT8: iLux® IR Handheld Remote

CNPWS-75: Cresnet® Power Supply, 75 Watts

CNX-B2: Designer Keypad, 2-Buttons

CNX-B4: Designer Keypad, 4-Buttons

CNX-B6: Designer Keypad, 6-Buttons

CNX-B8: Designer Keypad, 8-Buttons

CNX-B12: Designer Keypad, 12-Buttons

CRESNET-HP-NP-TL-SP1000: Cresnet® "High-Power" Control Cable, non-plenum, teal, 1000 ft spool

CRESNET-HP-NP-TL-SP500: Cresnet® "High-Power" Control Cable, non-plenum, teal, 500 ft spool

CRESNET-NP-BK-B500: Cresnet® Control Cable, non-plenum, black, 500 ft box

CRESNET-NP-OR-B500: Cresnet® Control Cable, non-plenum, orange, 500 ft box

CRESNET-NP-TL-B250: Cresnet® Control Cable, non-plenum, teal, 250 ft box

CRESNET-NP-TL-B500: Cresnet® Control Cable, non-plenum, teal, 500 ft box

CRESNET-NP-TL-SP1000: Cresnet® Control Cable, non-plenum, teal, 1000 ft spool

CRESNET-NP-TL-SP500: Cresnet® Control Cable, non-plenum, teal, 500 ft spool

CRESNET-NP-YL-B500: Cresnet® Control Cable, non-plenum, yellow, 500 ft box

CRESNET-P-BK-SP500: Cresnet® Control Cable, plenum, black, 500 ft spool

CRESNET-P-OR-SP500: Cresnet® Control Cable, plenum, orange, 500 ft spool

CRESNET-P-TL-SP1000: Cresnet® Control Cable, plenum, teal, 1000 ft spool

CRESNET-P-TL-SP500: Cresnet® Control Cable, plenum, teal, 500 ft spool

CRESNET-P-YL-SP500: Cresnet® Control Cable, plenum, yellow, 500 ft spool

Notes:

1. For a list of compatible ballasts, visit www.crestron.com/lightingcompatibility (PDF)
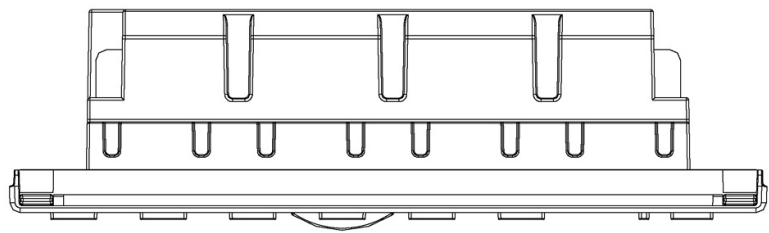2. Captive screw terminals accept up to two 22 to 12 AWG (0.34 to 4.0 mm²) wires per terminal.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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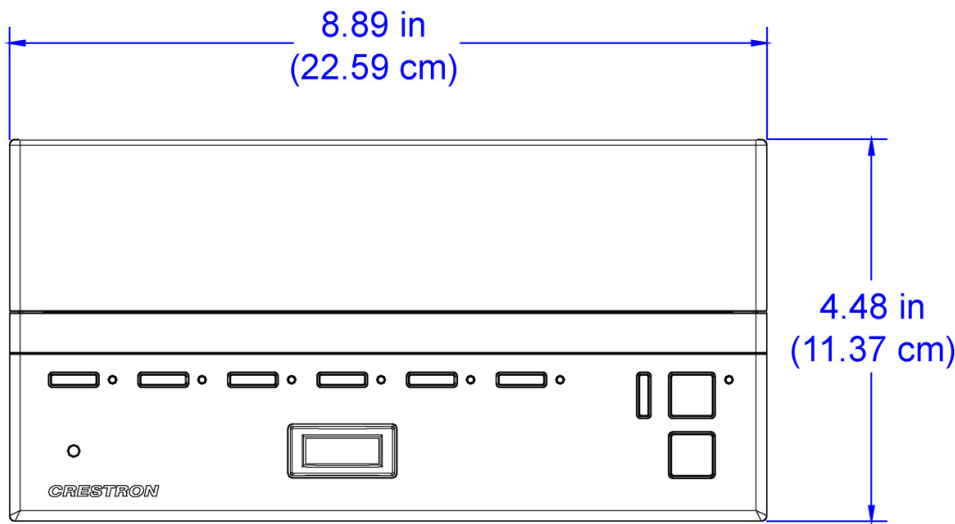
CAD DRAWINGS

Top

Front

8.89 in
(22.59 cm)

4.48 in
(11.37 cm)

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Side

2.8 in
(7.12 cm)

2.59 in
(6.58 cm)